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DEPT OF ECOLOGY

State of Washington  
Application for a Water Right

Please follow the attached instructions to avoid unnecessary delays.

FEE PAID

For Ecology Use

Fee Paid 10

Date 5/31/02

## Section 1. APPLICANT - PERSON, ORGANIZATION, OR WATER SYSTEM

Name LAKE Retreat Camp + Conf. Home Tel: ( ) -  
Mailing Address 27850 Retreat-Kanaskie SE Work Tel: (425) 432-4293  
City RAVENSDALE State WA Zip+4 98051 FAX: (425) 432-1434

## Section 2. CONTACT - PERSON TO CALL ABOUT THE APPLICATION

☐ Same as above

Name Ron Ziesing Home Tel: ( ) -  
Mailing Address 29717 SELK Retreat #1 Work Tel: (206) 730-3683  
City RAVENSDALE State WA Zip+4 98051 + 9535 FAX: (425) 432-1434  
Relationship to applicant Site operations manager

## Section 3. STATEMENT OF INTENT

The applicant requests a permit to use not more than 20,045 cfs (☒ gallons per minute or  
☐ cubic feet per second) from a ☒ surface water source or ☐ ground water source (check only one) for the purpose(s)  
of Domestic / Public Use. ATTACH A "LEGAL"

DESCRIPTION OF THE PLACE OF USE. (See instructions.) NOTE: A tax parcel number or a plat number is not  
sufficient.

Estimate a maximum annual quantity to be used in acre-feet per year: 12

☐ Check if the water use is proposed for a short-term project. Indicate the period of time that the water will be needed:

From \_\_\_/\_\_\_/\_\_\_ to \_\_\_/\_\_\_/\_\_\_

## Section 4. WATER SOURCE

If SURFACE WATER				If GROUNDWATER				
Name the water source and indicate if stream, spring, lake, etc. If unnamed, write "unnamed spring," "unnamed stream," etc.: <u>LAKE Retreat</u>				A permit is desired for _____ well(s).				
Number of diversions: <u>1</u>								
Source flows into (name of body of water): <u>UNNAMED outlet</u>				Size & depth of well(s):				
LOCATION								
Enter the north-south and east-west distances in feet from the point of diversion or withdrawal to the nearest section corner: <u>500' W + 600' NORTH of center of Section</u>								
¼ of	¼ of	Section	Township	Range(E/W)	County	If location of source is platted, complete below:		
						Lot	Block	Subdivision
<u>SE</u>	<u>NW</u>	<u>32</u>	<u>22</u>	<u>7E</u>	<u>King</u>			
For Ecology Use Date Received: <u>5/31/02</u> Priority Date: <u>5/31/02</u>								
SEPA: Exempt/Not Exempt FERC License # _____ Dept. Of Health # _____								
Date Accepted As Complete <u>5/31/02</u> By <u>WDA</u> Date Returned _____ By _____ WRIA: <u>9</u>								

Appl. No.: 51-28134



## Section 5. GENERAL WATER SYSTEM INFORMATION

A. Name of system, if named: LAKE Retreat Camp + Conf. ID 44400W

B. Briefly describe your proposed water system. (See instructions.)

See Attached

C. Do you already have any water rights or claims associated with this property or system? ☒ YES ☐ NO  
PROVIDE DOCUMENTATION. Attached

## Section 6. DOMESTIC / PUBLIC WATER SUPPLY SYSTEM INFORMATION (Completed for all domestic/public supply uses.)

A. Number of "connections" requested: 9 Type of connection 8 Residential, 1 non-Resident  
(Homes, Apartment, Recreational, etc.)

B. Are you within the area of an approved water system? ☐ YES ☒ NO  
If yes, explain why you are unable to connect to the system. Note: Regional water systems are identified by your County Health Department.

Complete C. and D. only if the proposed water system will have fifteen or more connections.

C. Do you have a current water system plan approved by the Washington State Department of Health? ☐ YES ☐ NO  
If yes, when was it approved? \_\_\_\_\_ Please attach the current approved version of your plan.

D. Do you have an approved conservation plan? ☐ YES ☐ NO  
If yes, when was it approved? \_\_\_\_\_ Please attach the current approved version of your plan.

## Section 7. IRRIGATION/AGRICULTURAL/FARM INFORMATION (Complete for all irrigation and agriculture uses.)

A. Total number of acres to be irrigated: \_\_\_\_\_

B. List total number of acres for other specified agricultural uses:

Use _____	Acres _____
Use _____	Acres _____
Use _____	Acres _____

C. Total number of acres to be covered by this application: \_\_\_\_\_

D. Family Farm Act (Initiative Measure Number 59, November 3, 1977, as amended by Chapter 237, Laws of 2001)  
Add up the acreage in which you have a controlling interest, including only:

- ‡ Acreage irrigated under water rights acquired after December 8, 1977;
- ‡ Acreage proposed to be irrigated under this application;
- ‡ Acreage proposed to be irrigated under other pending application(s).

1. Is the combined acreage greater than 6000 acres? ☐ YES ☐ NO
2. Do you have a controlling interest in a Family Farm Development Permit? ☐ YES ☐ NO  
If yes, enter permit no: \_\_\_\_\_

E. Farm uses:  
Stockwater - Total # of animals \_\_\_\_\_ Animal type \_\_\_\_\_ (If dairy cattle, see below)  
Dairy - # Milking \_\_\_\_\_ # Non-milking \_\_\_\_\_



## Section 8. WATER STORAGE

Will you be using a dam, dike, or other structure to retain or store water?

☐ YES ☒ NO

*NOTE: If you will be storing 10 acre-feet or more of water and/or if the water depth will be 10 feet or more at the deepest point, and some portion of the storage will be above grade, you must also apply for a reservoir permit. You can get a reservoir permit application from the Department of Ecology.*

## Section 9. DRIVING DIRECTIONS

Provide detailed driving instructions to the project site.

*ATTACHED*

## Section 10. REQUIRED MAP

A. Attach a map of the project. (See instructions.)

## Section 11. PROPERTY OWNERSHIP

A. Does the applicant own the land on which the water will be used?

☒ YES ☐ NO

If no, explain the applicant's interest in the place of use and provide the name(s) and address(es) of the owner(s):

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B. Does the applicant own the land on which the water source is located?

☒ YES ☐ NO

If no, submit a copy of agreement:

**I certify that the information above is true and accurate to the best of my knowledge. I understand that in order to process my application, I grant staff from the Department of Ecology access to the site for inspection and monitoring purposes. Even though I may have been assisted in the preparation of the above application by the employees of the Department of Ecology, all responsibility for the accuracy of the information rests with me.**

*Donal J. Ziegler*  
Applicant (or authorized representative)

*5-28-02*  
Date

*SAME*  
Landowner for place of use (if same as applicant, write "same")

Date



Use this page to continue your answers to any questions on the application. Please indicate section number before answer.

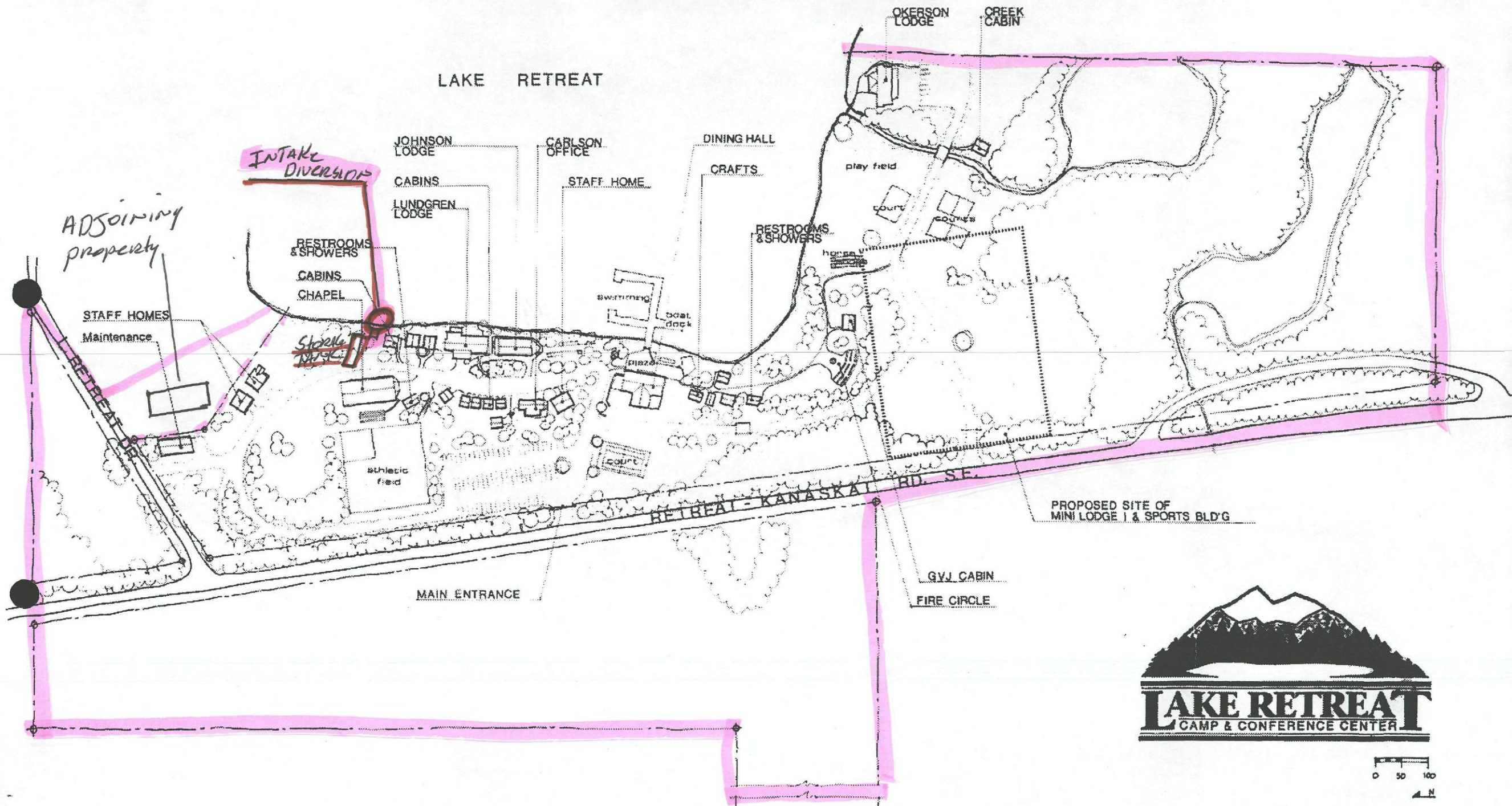
We are returning your application for the following reason(s):	
_____ Examination fee was not enclosed	APPLICANT PLEASE RETURN TO CASHIER, PO BOX 5128, LACEY, WA 98509-5128
_____ Section number(s) _____ is/are incomplete	APPLICANT PLEASE RETURN TO THE APPROPRIATE REGIONAL OFFICE
Explanation:	
Please provide the additional information requested above and return your application by _____ _____ (date).	

Ecology staff \_\_\_\_\_ Date \_\_\_\_\_

Ecology is an Equal Opportunity and Affirmative Action employer.

To receive this document in alternative format, contact the Water Resources Program at (360) 407-6604 (Voice) or (360) 407-6006 (TDD).





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N

Christine Mill Architect



LEGAL DESCRIPTION OF LAKE RETREAT BAPTIST CAMP

PARCEL 1: 322207-9010-08 MAIN CAMP

Government Lot 3 of Section 32, Township 22 North, Range 7 East W.M., EXCEPT that portion thereof described as follows:

Beginning at the Meander corner between Government Lots 2 and 3 of said Section, on the Northerly side of Lake Retreat (Also known as Fish Lake), and running thence North  $0^{\circ}32'$  West, along the Easterly line of said Government Lot 3, to the Northeast corner thereof;  
thence South  $87^{\circ}41'$  West, along the Northerly line of said Government Lot 3, a distance of 900 feet;  
thence South  $2^{\circ}15'$  East 500 feet;  
thence North  $87^{\circ}41'$  East, parallel to the Northerly line of said Government Lot 3, to the Meander Line of said Lake Retreat;  
thence Easterly, along said Meander Line, to the place of beginning;  
AND EXCEPT County Road;

The following portions of Government Lot 3 of Section 32, Township 22 North, Range 7 East W.M.;

(a) Beginning at the Northeast corner of said Government Lot 3, and running thence South  $0^{\circ}32'$  East, along the Easterly line of said Government Lot, 20 feet to the Southerly line of a 40 foot roadway; thence South  $87^{\circ}41'$  West, along said Southerly line, 478.69 feet;  
thence South  $58^{\circ}36'$  West, along the Southeasterly line of said roadway, 305.85 feet to an intersection with the Easterly line of a 30 foot roadway;  
thence South  $8^{\circ}18'$  East along the Easterly line of said 30 foot roadway, 170 feet to the true point of beginning of the tract herein described;  
thence South  $54^{\circ}42'$  East 229.30 feet;  
thence South  $33^{\circ}59'$  West 35 feet;  
thence South  $87^{\circ}41'$  West 142.52 feet to the Easterly line of said 30 foot roadway;  
thence North  $8^{\circ}18'$  West, along said Easterly line, 169.42 feet to the true point of beginning,

(ALSO KNOWN AS Tract "F" of Lake Retreat, an unrecorded plat);  
TOGETHER WITH shore lands of the second class situate in front of, adjacent to or abutting thereon; ALSO

(b) Beginning on the Northerly line of said Government Lot 3 at a point which is South  $87^{\circ}41'$  West 495.10 feet from the Northeast corner thereof, which point is on the center line of a 40 foot roadway bearing South  $58^{\circ}36'$  West, and running thence South  $87^{\circ}41'$  West, along the Northerly line of said Government Lot, 414.90 feet;  
thence South  $2^{\circ}15'$  East 258.61 feet to the center line of said roadway;

thence North  $58^{\circ}36'$  East, along the center line of said roadway, 489.15 feet to the point of beginning; EXCEPT the Southeasterly 20 feet thereof lying within



said roadway;

(ALSO KNOWN AS Tract "J" of Lake Retreat, an unrecorded plat);  
ALSO

(c) Beginning at the Northeast corner of said Government Lot 3, and running thence South 87°41' West, along the Northerly line of said Government Lot, 900 feet;  
thence South 2°15' East 282.58 feet to the Southeasterly line of a 40 foot roadway and the true point of beginning of the tract herein described;  
thence North 58°36' East, along the Southeasterly line of said roadway, 190.10 feet to the Easterly line of a 30 foot roadway;  
thence South 8°18' East, along said Easterly line, 339.42 feet;  
thence South 87°41' West 200 feet, more or less, to a point which is South 2°15' East from the true point of beginning;  
thence North 2°15' West 217.42 feet to the true point of beginning;  
EXCEPT the Easterly 30 feet thereof lying within said 30 foot roadway;

(ALSO KNOWN AS Tract "K" of Lake Retreat, an unrecorded plat);

PARCEL 2:

That portion of the Northwest  $\frac{1}{4}$  of the Southwest  $\frac{1}{4}$  and of Government Lot 4 in Section 32, Township 22 North, Range 7 East W.M., described as follows:

Beginning at a point on the East and West center line of said Section, 423 feet East of the West quarter corner of said Section;  
thence East, along the said East and West center line, 1547 feet, more or less, to the meander line of Fish Lake, also known as Lake Retreat;  
thence South 25°45' East, along said meander line, 151.80 feet;  
thence continuing along said meander line, South 83°30' East 87.60 feet;  
thence South 106 feet, more or less, to an intersection with a line 260 feet South of and parallel to the East and West center line of said Section;  
thence West, along said parallel line, to a point South of the point of beginning;  
thence North 260 feet to the point of beginning; EXCEPT County Road; AND EXCEPT pipe line right of way of the Northwestern Improvement Company;  
LESS all coal and minerals and the right to explore for and mine the same;

PARCEL 3: 322207-9052-07-572,P

That portion of the bed and shores of Fish Lake, also known as Lake Retreat, described as follows:

Beginning at the intersection of the Northerly line of Government Lot 4 in Section 32, Township 22 North, Range 7 East W.M., with the Government Meander line;  
thence South 25°45' East, along said meander line, 151.80 feet;  
thence continuing along said meander line South 83°30' East 87.60 feet;  
thence North 29°06' East to the Northerly line of said Government Lot 4 produced Easterly;  
thence Westerly, along said produced line, to the point of beginning;

ALL situate in the County of King, State of Washington.



That portion of Government Lot 4 in Section 32, Township 22 North, Range 7 East, W.M., described as follows:

Beginning at the Southeast corner of said Government Lot;  
thence North along the East line thereof to the Government meander line of Lake Retreat (formerly known as Fish Lake);  
thence Westerly, Southwesterly and Northwesterly along said meander line to a point thereon which is South  $25^{\circ}45'00''$  East 151.80 feet and South  $83^{\circ}30'00''$  East 87.60 feet (measured along said meander line) from the meander corner on the East and West center line of said Section 32;  
thence South 106 feet, more or less, to a point on a line which is parallel with and 260.00 feet South of the Easterly production of the East and West center line of said Section;  
thence West along said parallel line 300 feet, more or less, to the Easterly line of county road;  
thence Southerly along said Easterly line to the Southerly line of said Government Lot;  
thence Easterly, along said Southerly line, 500 feet, more or less, to the point of beginning; EXCEPT those portions deeded to King County for Road under Auditor's File No. 5445492.

Situate in the County of King, Stat of Washington.



## Section 5 B

### **Project History**

The Lake Retreat Camp & Conference Center is located on the west side of lake retreat (lake 32) and has a water system ID No. of 44400W. The existing well water supply system replaced the original surface water system in 1996. The original system pumped water from lake retreat and chlorinated it on the way to a 10,000 gallon storage tank. In 1993 the Washington department of health informed LRC facility that in order to comply with the surface water treatment rule they must either install filtration or obtain an alternative source. In response to DOH a well system was installed that included zone treatment for iron and manganese. The existing treatment and distribution system was approved by DOH.

Iron and manganese have continued to be a problem throughout the life of the current well system, requiring expensive maintenance when precipitates of these metals clog the screens, impellers, and filters. Current life of a submersible pump is 14 months, at best. A new well was drilled on the property in 1999. The water produced is not as heavy in metals, but the flow rate from both wells is 9 gallons per minute, which is not sufficient to provide for the many users.

The LRC management decided that the existing system is not sustainable and a new source of water must be found. Since there are no other suitable well sites on the property, surface water has again become the water source.

### **Project Description**

Lake Retreat Camp & Conference Center is a year round facility used for public and private schools and many churches. They are most heavily used in the summer months with as many as 450 people per day at the facility. Typical summer demand is 12,000 gallons per 24 hour period, not including landscape watering. Water is also provided to the neighboring property at 29725 SE lake Retreat North Drive. A reliable source and treatment system to produce quality water of sufficient quantity is the goal of this project.

The original DOE approval for using well #3 was 2-12-96. After the second well (#4) was drilled approval for both wells on the same treatment plant was on 11-7-01.

The existing well water treatment system components will be re-used and new system components will be added. The existing system uses ozone pretreatment, multimedia in line pressure filtration, and chlorination. The new system will add two additional filters between the existing filters and chlorination. These filters will be the Rosedale Giardia Lambia Reduction System which consist of a graded density bag filter as a pre filter followed by a microfiber giardia lambia removal bag filter. The design flow rate for the filters is 20 gpm. The LRC facility will draw water at 15 gpm from a protected and fenced intake area fifteen feet off the shoreline.



## **System Planning**

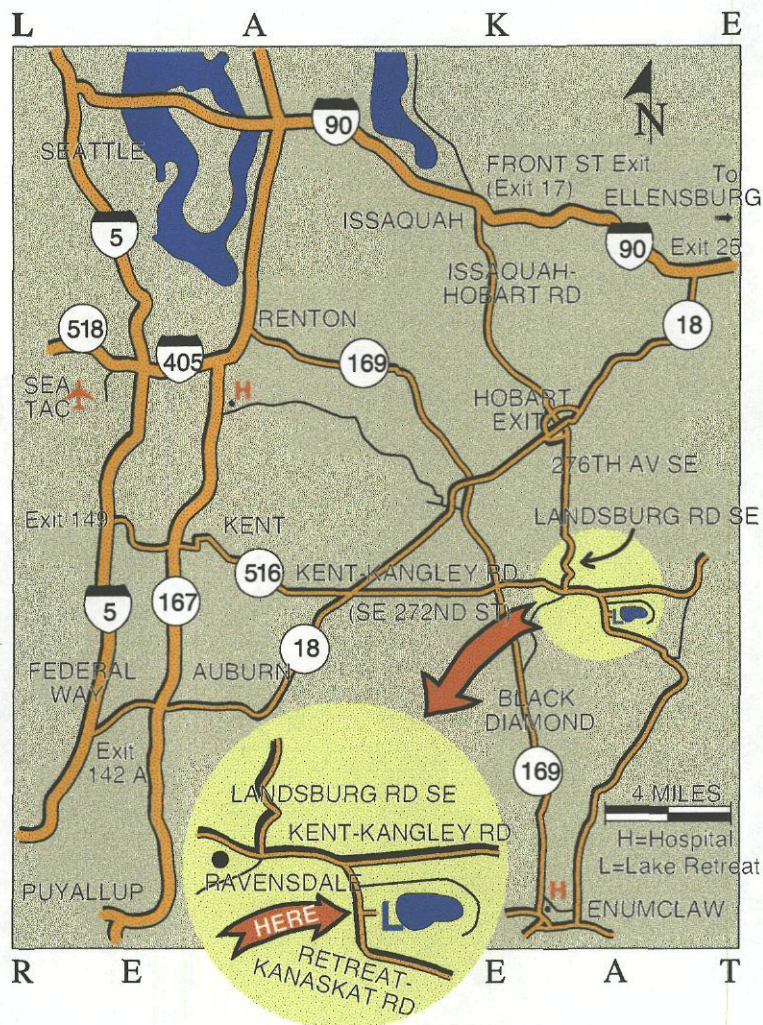
A new 120,000 water storage tank has been built to provide fire flow, which is currently a separate distribution system throughout the facility. The fire pump was originally setup to pull water from lake retreat, but has been moved to a new pumphouse next to the new tank. The new treatment system will be housed in a new pumphouse in close proximity to the new storage tank. Existing booster pumps (5 hp) on the system will be housed in this location also when DOH approves the tank for domestic use.

## **Alternative Sources**

Groundwater and surface water have both been used at this camp in the past. Surface water is very good with turbidity much less than one NTU. There are several homes around the lake using septic drain fields and the lake is popular for swimming, so nutrients and microbial infection are possible. Up until 1998 water was pumped directly from the lake with chlorine the only treatment. No known water borne diseases were reported. Additional water treatment components to bring the system into compliance with DOH will cost approximately \$10,000.

Groundwater sources on site do not provide the amount of water needed for safe operation of the facility. Clogging of pumps and filters have caused many water supply disturbances leaving conference guests and neighbors without water for hours. Water for the expanded fire protection system and storage tank have lowered the aquifer and caused cavitation and increased wear on the filters. The current flow rate from two wells is 9 gpm. No other sites exist for new wells on the property due to septic systems and wetlands.





#### Directions

Lake Retreat lies 35 miles Southeast of Seattle and is about 25 minutes drive from Issaquah, Renton, or Auburn.

#### From Tacoma:

North on 5 to Federal Way  
East on 18 at exit 142A  
Right on 272nd Street (this is also 516 and Kent-Kangley Rd.: same road, three names)  
Right on Retreat-Kanaskat Rd. SE  
Lake Retreat is on the left

#### From Seattle:

East on 90  
Right on Front Street in Issaquah at exit 17  
Left on Kent-Kangley Rd.  
Right on Retreat-Kanaskat Rd. SE  
Lake Retreat is on the left

#### From Ellensburg:

West on 90  
West on 18 at exit 25  
Off at Hobart exit then left  
Left on Kent-Kangley Rd.  
Right on Retreat-Kanaskat Rd. SE  
Lake Retreat is on the left



27850 Retreat-Kanaskat Road Southeast  
Ravensdale, Washington 98051  
(425) 432-4293